

White Ground Road Bridge No. M-138 -- No. 500505

Category
Subcategory
Administering Agency
Planning Area

Transportation
Bridges
Transportation
Germantown

Date Last Modified
Required Adequate Public Facility
Relocation Impact
Status

January 06, 2009
No
None.
Final Design Stage

EXPENDITURE SCHEDULE (\$000)

Cost Element	Total	Thru FY08	Rem. FY08	Total 6 Years	FY09	FY10	FY11	FY12	FY13	FY14	Beyond 6 Years
Planning, Design, and Supervision	393	183	210	0	0	0	0	0	0	0	0
Land	17	0	17	0	0	0	0	0	0	0	0
Site Improvements and Utilities	7	0	7	0	0	0	0	0	0	0	0
Construction	1,139	0	954	185	0	0	185	0	0	0	0
Other	0	0	0	0	0	0	0	0	0	0	0
Total	1,556	183	1,188	185	0	0	185	0	0	0	0

FUNDING SCHEDULE (\$000)

G.O. Bonds	1,556	183	1,188	185	0	0	185	0	0	0	0
Total	1,556	183	1,188	185	0	0	185	0	0	0	0

DESCRIPTION

This project provides for replacement of the White Ground Road Bridge over Buck Lodge Branch and approximately 1000 feet of approach roadway work (500 feet each to the north and south). The replacement bridge will be approximately 50-feet long and 18-feet wide (16 feet clear roadway width). The approach roadway work is necessary to transition the new bridge into the existing roadway alignment. The bridge and road will be closed to vehicular and pedestrian traffic during construction. Stream bank stabilization and realignment of the stream channel will be required to prevent further stream degradation and erosion of the existing stream banks..

CAPACITY

Upon completion, the Average Daily Traffic (ADT) on White Ground Road will remain at 650 vehicles per day, and the posted load restriction will be eliminated.

COST CHANGE

Increase in construction cost due to the escalation of material costs, updated estimates, and redesign as a result of environmental issues.

JUSTIFICATION

The existing structure, built around 1950, is a 28-foot long single span steel beam bridge with an asphalt filled corrugated metal deck. The clear roadway width of 15 feet 7 inches supports alternating two-way traffic. The 2001 and 2005 bridge inspection reports revealed that the concrete substructure is in very poor serious condition. The abutments and wingwalls exhibit deterioration in the form of cracking and spalling concrete. Each abutment has been undermined by the stream current. Concrete aprons and rip-rap have been placed as temporary measures to preventive scour. The steel beams are heavily corroded with section loss in part due to moisture migrating through the joints in the corrugated metal decking. The bridge is structurally deficient. It is currently posted for both a Single Unit Vehicle Weight and Combination Unit Vehicle Weight of 34,000 lbs. White Ground Road is designated as an exceptional rustic road in the functional master plan for rustic roads. This bridge was identified for replacement through the County's Biennial bridge inspection program.

OTHER

The construction will start in FY10 and be completed in FY11. The narrow bridge makes the project ineligible for Federal funding. The design costs for this project are included in Facility Planning: Bridges. Federal Aid received for design was reimbursed to the State Highway Administration. After completion, the bridge will be rated as functionally obsolete, under Federal guidelines because of its width.

FISCAL NOTE

Expenditure schedule reflects fiscal capacity and has not been adjusted for the project delay. Due to recently determined environmental requirements, some redesign and permitting will be needed, resulting in a delay to the project. Actual anticipated expenditure schedule is: FY09 \$17,000; FY10 \$1,068,000; FY11 \$288,000.

OTHER DISCLOSURES

- A pedestrian impact analysis has been completed for this project.

APPROPRIATION AND EXPENDITURE DATA

Date First Appropriation	FY05	(\$000)
First Cost Estimate		
Current Scope	FY10	1,556
Last FY's Cost Estimate		1,371
Appropriation Request	FY10	185
Supplemental Appropriation Request		0
Transfer		0
Cumulative Appropriation		1,371
Expenditures / Encumbrances		195
Unencumbered Balance		1,176
Partial Closeout Thru	FY07	0
New Partial Closeout	FY08	0
Total Partial Closeout		0

COORDINATION

Maryland State Highway Administration
Maryland-National Capital Park and Planning
Commission
Maryland Historical Trust
Maryland Department of Natural Resources
Maryland Department of the Environment
U. S. Army Corps of Engineers
Department of Permitting Services
Utility Companies
Facility Planning: Bridges
Federal Highway Administration
Rural/Rustic Roads Legislation
U.S Fish and Wildlife Service

MAP

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